

Soliman) in view of U.S. Patent No. 5,245,629 to Hall (hereinafter Hall). This rejection is respectfully traversed for the following reasons.

Independent claims 1, 9, 15, and 21 each recite calculating or determining an interference measure, which is based on the power of a pilot signal received at a mobile unit. Nothing in Soliman and Hall, taken alone or in combination, discloses this feature.

Soliman discloses a device for simulating the effect of signal interference power received at a base station. To do this, Soliman discloses determining a composite signal power that would be transmitted by the simulated mobile units to a base station. Soliman also discloses that a normalized transmission data rate  $r_{eq}$  is determined for the simulated mobile users. Applicant respectfully submits that there is no disclosure in Soliman of measuring any parameter related to the power received at a mobile unit to simulate the effect of signal interference.

Hall discloses a communication system where a base station controls the power level of each mobile unit, so that the signal-to-noise ratio ( $E_b/N_o$ ) of the signal received at the base station from the mobile units meets a threshold (for example, 7dB as shown in Figure 4). According to Hall, when the number of mobile units within the cell reaches the maximum capacity for the threshold, the threshold will be lowered until it reaches the  $E_b/N_o$  of a reverse pilot signal received at the base station. Thus, Hall's base station can accept additional mobile

units in the cell by lowering the threshold for each mobile unit, until a minimum threshold based on the reverse pilot signal is reached. Accordingly, Applicants respectfully submit that Hall's base station performs all of its operations based on signals received at the base station, and there is no disclosure in Hall of calculating any measure based on the power of a signal received at the mobile units, as recited in the independent claims.

For the reasons discussed above, neither Soliman nor Hall discloses a base station, which calculates an interference measure based on a power of a pilot signal received at the mobile unit, as required by the independent claims. Accordingly, Applicants respectfully submit that claims 1, 9, 15, and 21 are allowable. Further, Applicants submit that claims 2-8, 10-14, 16-20, and 22-26 are allowable at least by virtue of their dependency on claims 1, 9, 15, and 21. Therefore, reconsideration and withdrawal of this rejection is respectfully requested.

### **CONCLUSION**

In view of the above remarks, reconsideration of the various rejections and allowance of claims 1-26 is respectfully requested.

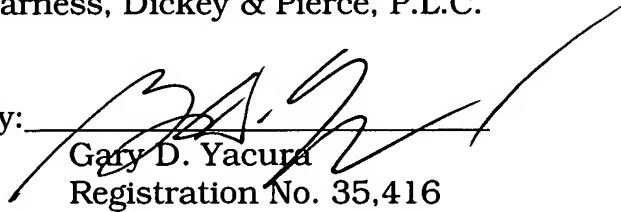
In the event that there are any outstanding matters remaining in the present application, the Examiner is invited to contact Jason Rhodes at (703) 390-3030 in the Washington, D.C. area, to discuss this application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. 1.16 or under 37 C.F.R. 1.17; particularly, extension of time fees.

Respectfully submitted,

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